

Consumables Usage Hours Guide

Ismatec Reglo Digital MS-4/12 pump tubing (Tygon R3607):

- If run at 100 rpm (= max flow rate), max run time is **35h**.
- If Q-Sense standard tubing with 0.38 mm ID is run at 150 µl/min, max run time is **200h**.

Ismatec IPC-N4 tump tubing (Tygon R3607):

- If run at 11.25 rpm (= max flow rate), max run time **300h**.
- If Q-Sense standard tubing with 0.64 mm ID is run at 50µl/min, max run time is **1200h**.

3-way Valve in AFC302 Flow Chamber:

- In pure water and handled with care: 60 000 – 80 000 rotations.
- In extreme pH values or highly salty solutions: 5000 – 10 000 rotations.
- Experience from Q-Sense users suggests **1-2 years**.

Sensor Crystals:

- Depending on application and possibility to clean. If only mild cleaning conditions are needed and the application is insensitive to increased surface roughness, a crystal may be used **for numerous experiments**. However, for certain applications a standard surface can be used **only once**. Check that the absolute *D*-values are within recommended limits: (150-250 E-6 for 3rd overtone); if the crystal's *D*-baseline starts to deviate over time, it is an indication of reduced quality.

Tubing, o-rings and sealing gaskets:

- The need for replacements depends on application and compliance to chemical compatibility recommendations. Refer to the Chemical compatibility chart in the Operator Manual if sample liquids are OK to use.

Ferrules for E4/E1 flow modules:

- Ferrules get irreversibly deformed when mounted into the flow module. Can only be used on **1 tube**.

Nuts for E4/E1 flow modules:

- The end of life for the black nuts will be when they do not seal the inlet and outlet of the flow modules any longer. If leakage is observed around them, they need to be replaced.

For ordering of consumables, please find your local dealer contact information at www.q-sense.com.

